

**DEPARTMENT OF THE NAVY
BUREAU OF NAVAL PERSONNEL
5720 INTEGRITY DRIVE
MILLINGTON TN 38055-0000**

IN REPLY REFER TO
BUPERSINST 1401.4B
PERS-446
16 Jul 01

BUPERS INSTRUCTION 1401.4B

From: Chief of Naval Personnel
To: All Ships and Stations (less Marine Corps field
addressees not having Navy personnel attached)

Subj: ASTRONAUT CANDIDATE SELECTION PROGRAM

Encl: (1) SAMPLE APPLICATION FORMAT

1. Purpose. To publish information concerning Astronaut Selection Program and provide procedures for application to National Aeronautics and Space Administration (NASA) Space Shuttle Program. This instruction is a complete revision and should be reviewed in its entirety.
2. Cancellation. BUPERSINST 1401.4A.
3. Background. NASA will normally biennially select pilot/mission specialist astronaut candidates for future shuttle teams. In a memorandum of agreement between Department of Defense (DOD) and NASA, a provision is made for highly qualified Navy personnel to participate in the nationwide astronaut candidate selection program. Successful applicants will be assigned to positions located at Lyndon B. Johnson Space Center in Houston, TX, and be involved in a 1-year training and evaluation program, after which they will enter the astronaut corps and be eligible for assignment as pilot and mission specialist astronauts on future missions.
4. General. Interested personnel who desire to become a pilot or mission specialist astronaut and who meet selection criteria are encouraged to submit an application via their commanding officer (CO) to Navy Personnel Command (NAVPERSCOM) (PERS-446B) following applicable procedures in this instruction. NASA has emphasized their desire for maximum participation by all qualified personnel. A selection board will convene at most biennially to identify best-qualified nominees for the astronaut positions. List of selected nominees will be forwarded to NASA for final consideration. NASA will select astronauts from this list.

5. Pilot Astronaut Qualification Requirements. Military applicants for pilot astronaut candidate program must meet the following minimum qualifications:

a. Be a naval aviator on active duty with a minimum of 5 years active commissioned service.

b. Have earned a bachelor's degree from an accredited institution in engineering, biological or physical science, or mathematics. An advanced degree or equivalent experience is desired. Quality of academic preparation is important.

c. Have acquired a minimum of 1,000 hours pilot-in-command time in jet aircraft. Flight test experience is highly desirable.

d. Be able to pass a NASA Class I space flight physical (similar to Navy Class I, Service Group I flight physical) to include the following specific standards:

(1) Distant Visual Acuity. 20/50 or better uncorrected; correctable to 20/20 each eye.

(2) Hearing loss not to exceed

Frequency (HZ)	$\frac{*500}{30}$	$\frac{1000}{25}$	$\frac{2000}{25}$	$\frac{4000}{50}$
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*International Standards Organization (per-ISO), 1964 Standard.

(3) Blood Pressure. Preponderant systolic not to exceed 140, nor diastolic to exceed 90-Millimeter (MM) mercury (HG), measured in a recumbent position.

e. Applicant height must be between 64 and 76 inches.

6. Mission Specialist Qualification Requirements. Military applicants for mission specialist astronaut candidate program must meet following minimum qualifications:

a. U.S. citizen on active duty with minimum 5 years active commissioned service.

b. Earned a bachelor's degree from an accredited

institution in engineering, biological or physical science, or mathematics. Degree must be supplemented by at least 3 years relatable experience. An advanced degree is desired and can be substituted for experience requirement (master's degree; 1 year; Ph.D. degree; 3 years). Quality of academic preparation is important.

c. Able to pass a NASA Class II space flight physical (similar to Navy Class I, Service Group III flight physical) to include the following specific standards:

(1) Distant Visual Acuity. 2/200 or better uncorrected; correctable to 20/20 each eye.

(2) Hearing loss not to exceed

Frequency (HZ) *	$\frac{500}{30}$	$\frac{1000}{25}$	$\frac{2000}{25}$	$\frac{4000}{50}$
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*International Standards Organization (per-ISO),
1964 Standard PER ISO, 1964 Standard.

(3) Blood Pressure. Preponderant systolic not to exceed 140, nor diastolic to exceed 90 MM HG, measured in a recumbent position.

d. Applicant height must be between 58.5 and 76 inches.

7. Application Procedures

a. Selection board convening date will be announced by message. Applications with all enclosures must be submitted in format shown in enclosure (1) and must be received by NAVPERSCOM (PERS-446B) no later than 60 days prior to the published selection board convening month.

b. Copies of SF-88's, Report of Medical Examination, SF-93's, Report of Medical History; and JSC 465's, Supplemental Medical history; must be forwarded to Naval Operational Medicine Institute (NAVOPMEDINST) ATTN: Code 42, 220 Hovey Road, Pensacola, FL 32508, for review 30 days prior to board convening date.

8. Required Enclosures. Following enclosures must be included with the application:

a. SF-88, Report of Medical Examination, filled out by a flight surgeon and dated not earlier than 6 months prior to the board (enclosure (1)).

b. SF-93, Report of Medical History, dated not earlier than 6 months prior to Navy board (enclosure (2)).

c. JSC 465, Supplemental Medical History, (enclosure (3)).

d. Copy of College Transcripts (enclosure (4)).

e. JSC 490, Supplemental Information, (enclosure (5)).

f. JSC 498, Astronaut Candidate Program Application/Update (enclosure (6)).

g. For pilot applicants only - JSC 603, Summary of Aeronautical Experience, (enclosure (7)).

9. Command Endorsement. Commanders are enjoined to ensure widest dissemination of this program. Endorsements to applications will include a personal assessment of applicant as a prospective astronaut and a recommendation for the requested duty.

10. Forms

a. A complete package of required forms in this instruction may be obtained by contacting NAVPERSCOM (PERS-446B) at the following address:

Navy Personnel Command (PERS-446B)
5720 Integrity Drive
Millington TN 38055-4460

b. SF Forms are also available at
<http://web1.whs.osd.mil/ICDHOME/NICDHOME.htm>.

c. JSC Forms are also available at [www://nasajobs.nasa.gov](http://www.nasa.gov/jobs).

d. Complete package of forms consists of
(1) SF-88 (Rev. 10-94) (EG), Report of Medical Examination

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- (2) SF-93 (Rev. 6/96) (EG), Report of Medical History
- (3) JSC 465 (Rev. 8-89), Supplemental Medical History
- (4) JSC 603 (Rev. 5-83), Summary of Aeronautical
Experience
- (5) JSC 490 (Rev. 6-85), Supplemental Information
- (6) JSC 498 (Rev. 8-97) Astronaut Candidate Program
Application/Update

G. L. HOEWING
Rear Admiral, U.S. Navy
Deputy Chief of Naval Personnel

Distribution:
SNDL Parts 1 and 2

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FOR OFFICIAL USE ONLY (When Filled In)
SAMPLE APPLICATION FORMAT

From: Rank, Name (First, middle, Last), SSN/Designator
To: Navy Personnel Command (PERS-446B)
Via: Commanding Officer,

Subj: APPLICATION FOR ASTRONAUT CANDIDATE SELECTION BOARD

Ref: (a) BUPERSINST 1401.4B

Encl: (1) SF-88, Report of Medical Examination
(2) SF-93, Report of Medical History
(3) JSC 465, Supplemental Medical History
(4) Copy of College Transcripts
(5) JSC 603, Summary of Aeronautical Experience
(6) JSC 490, Supplemental Information
(7) JSC 498, Astronaut Candidate Program
Application/Update

1. Per reference (a), I request to be considered for pilot/mission specialist astronaut program (as applicable) with National Aeronautics and Space Administration (NASA).

2. Current military address:

3. Date of commission:

4. Instrument rating: (if applicable)

5. Flying experience: (if applicable)

a. Total hours:

b. First pilot total hours:

c. First pilot hours within last 12 months:

d. First pilot hours in jet aircraft:

e. First pilot hours in jet aircraft within last 12 months:

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Enclosure (1)

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Subj: APPLICATION FOR ASTRONAUT CANDIDATE SELECTION BOARD

- f. Aircraft in which current: (as of application date)
- g. List aircraft flown by type, total hours, date last flown:
- h. Test pilot school/graduate date:
- i. Test pilot experience: (number of years)
- j. Aviation combat experience:

6. Education Background:

- a. Service schools:
- b. College(s) attended:
 - (1) Degree(s) and year of graduation (major/minor):
 - (2) Grade point average based on 4.0 system (undergraduate and graduate):

7. Describe experience/technical competence: (mission specialist only):

- a. Post-graduate job experience: (degree related)
- b. Experience in aeronautic/space related fields:

(Signature)

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